

61. (New) A dispersion comprising polymer particles, inorganic particles and water, wherein the zeta potential of said polymer particles and the zeta potential of said inorganic particles are of opposite signs, and said polymer particles and said inorganic particles are electrostatically bonded to form composite particles,

wherein said polymer particles have at least one functional group selected from the group consisting of a carboxyl group, an anion of a carboxyl groups, a sulfonic acid group and an anion of a sulfonic acid group, and said inorganic particles are alumina, titania, or combinations thereof, and

wherein a plurality of said inorganic particles are attached to a surface of each of said polymer particles, and a ratio (Sp/Si) of a mean particle size of said polymer particles (Sp) and a mean particle size of said inorganic particles (Si) is from 1 to 40.

62. (New) The dispersion according to Claim 61, wherein said inorganic particles are alumina, and the pH of said aqueous dispersion is from 2 to 9.

63. (New) The dispersion according to Claim 61, wherein said inorganic particles are titania, and the pH of said aqueous dispersion is from 2 to 6.

64. (New) The dispersion according to Claim 61, wherein said polymer particles have at least one further functional group selected from the group consisting of an ester group, an amide group, a hydroxyl group and an ether group.

65. The dispersion according to Claim 61, wherein a ratio (Sp/Si) of a mean particle size of said polymer particles (Sp) and a mean particle size of said inorganic particles (Si) is from 1.5 to 20.

66. (New) The dispersion according to Claim 61, wherein a ratio (Wp/Wi) of a content of said polymer particles (Wp) and a content of said inorganic particles (Wi) is from 0.05 to 1.

67. (New) The dispersion according to Claim 61, further comprising a surfactant, wherein a content of said surfactant is not greater than 0.15 wt%.

68. (New) The dispersion according to Claim 67, further comprising an oxidizing agent, a polyvalent metal ion, or a combination thereof.

69. (New) The dispersion according to Claim 68, further comprising an organic acid.

70. (New) A dispersion comprising polymer particles, inorganic particles and water, wherein the zeta potential of said polymer particles and the zeta potential of said inorganic particles are of opposite signs, and said polymer particles and said inorganic particles are electrostatically bonded to form composite particles,

wherein said polymer particles have at least one functional group selected from the group consisting of a cation-formable nitrogen-containing group and a cation of a cation-formable nitrogen-containing group, and at least one of said inorganic particles is selected from the group consisting of silica, zirconia and titania, and

wherein a plurality of said inorganic particles are attached to a surface of each of said polymer particles, and a ratio (S_p/S_i) of a mean particle size of said polymer particles (S_p) and a mean particle size of said inorganic particles (S_i) is from 1 to 40.

71. (New) The dispersion according to Claim 70, wherein said inorganic particles are silica, and the pH of said aqueous dispersion is from 2.5 to 8.5.

72. (New) The dispersion according to Claim 70, wherein said inorganic particles are zirconia, and the pH of said aqueous dispersion is from 4 to 8.5.

73. (New) The dispersion according to Claim 61, wherein said inorganic particles are titania, and the pH of said aqueous dispersion is from 6.5 to 8.5.

74. The dispersion according to Claim 70, wherein a ratio (S_p/S_i) of a mean particle size of said polymer particles (S_p) and a mean particle size of said inorganic particles (S_i) is from 1.5 to 20.

75. (New) The dispersion according to Claim 70, wherein a ratio (W_p/W_i) of a content of said polymer particles (W_p) and a content of said inorganic particles (W_i) is from 0.05 to 1.

76. (New) The dispersion according to Claim 70, further comprising a surfactant, wherein a content of said surfactant is not greater than 0.15 wt%.

77. (New) The dispersion according to Claim 76, further comprising an oxidizing agent, a polyvalent metal ion, or a combination thereof.

78. (New) The dispersion according to Claim 77, further comprising an organic acid.

79. (New) A dispersion comprising polymer particles, inorganic particles and water, wherein the zeta potential of said polymer particles and the zeta potential of said inorganic particles are of opposite signs, said polymer particles and said inorganic particles are electrostatically bonded to form composite particles,

wherein said polymer particles have at least one functional group selected from the group consisting of a carboxyl group, an anion of a carboxyl groups, a sulfonic acid group and an anion of a sulfonic acid group, and said inorganic particles are alumina, titania, or a combination thereof, and a plurality of said inorganic particles are attached to a surface of each of said polymer particles, and

wherein a ratio (S_p/S_i) of a mean particle size of said polymer particles (S_p) and a mean particle size of said inorganic particles (S_i) is from 1 to 40, said composite particles are obtained after ultrasonic irradiation treatment or mechanical shear stress treatment with a homogenizer, and a mean particle size of said composite particles is not greater than $1\mu\text{m}$.

80. (New) A dispersion comprising polymer particles, inorganic particles and water, wherein the zeta potential of said polymer particles and the zeta potential of said inorganic particles are of opposite signs, said polymer particles and said inorganic particles are electrostatically bonded to form composite particles,

wherein said polymer particles have at least one functional group selected from the group consisting of a cation-formable nitrogen-containing group and a cation of a cation-formable nitrogen-containing group, and said inorganic particles are selected from the group consisting of silica, zirconia and titania, and

wherein a plurality of said inorganic particles are attached to a surface of each of said polymer particles, and a ratio (S_p/S_i) of a mean particle size of said polymer particles (S_p) and a mean particle size of said inorganic particles (S_i) is from 1 to 40, said composite particles are obtained after ultrasonic irradiation treatment or mechanical shear stress treatment with a homogenizer, and a mean particle size of said composite particles is not greater than $1\mu\text{m}$.

wherein said polymer particles have at least one functional group selected from the group consisting of cation-formable nitrogen-containing groups and cations of cation-formable nitrogen-containing groups, and said inorganic particles are selected from the group consisting of silica, zirconia and titania.

REMARKS

Claims 40-43 and 61-80 are active in the present application. Claims 61-80 are currently under active prosecution. Claims 40-43 are non-elected claims. Claims 44-60 have been canceled. Claims 61, 70 and 79-80 are new independent claims. New independent Claim 61 contains the limitations of previous Claims 44 and 47. New independent Claim 70